

ROUTING SLIP

SEP 15 1982

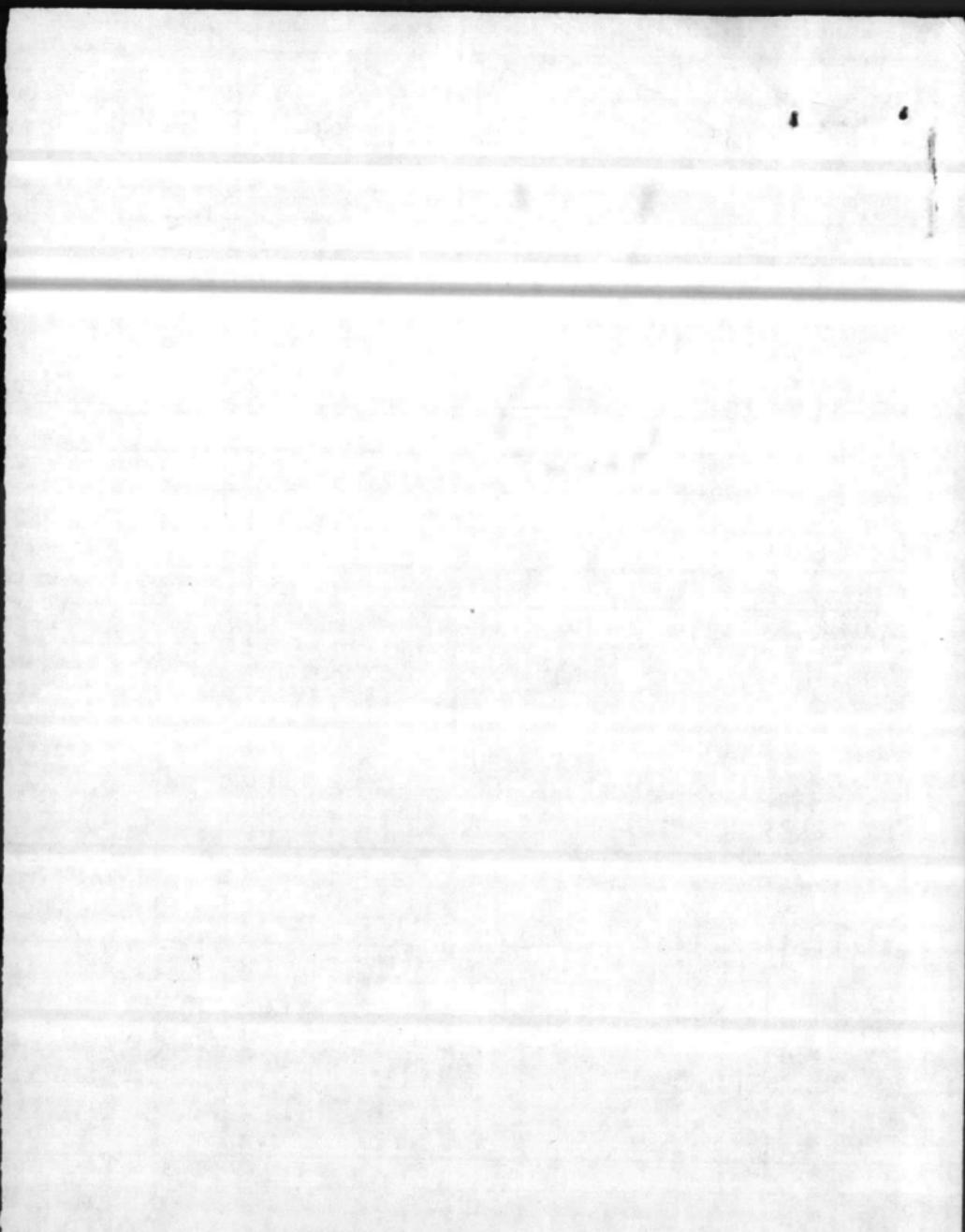
ACTION

INFO

INITIAL

	ACTION	INFO	INITIAL
BMO		<input checked="" type="checkbox"/>	SW
ABMO		<input checked="" type="checkbox"/>	SW
ADMIN		<input checked="" type="checkbox"/>	SW
ENVIOR AFF	<input checked="" type="checkbox"/>		JW
F&A SEC			
MAINT NCO			
M&R			
OPNS			
PROP			
UMACS			
UTIL			
SECRETARY			

COMMENTS:



PUBLIC WORKS DEPARTMENT
BUILDING 1005, MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542

In reply refer to

PWO:408:VM:mkt
11000
14 September 1982

From: Public Works Officer
To: Base Maintenance Officer

Subj: Disposal of Low-Level Radioactive Waste

Ref: (a) Phonecon btwn Mrs. Lacy (Regional Contract Dept., Code 202.9, NavSupCen) and Mr. V. Marshburn (Planning Branch, PWD) of 2 Sep 1982

Encl: (1) COMLANTNAVFACENCOM ltr 09A21B:DRP:car 11010/MARCORB CAMP LEJEUNE of 27 Aug 1982

1. A request for Engineering Service Assistance (ESR) for disposal of Radioactive Waste was forwarded to the Atlantic Division, Naval Facilities Engineering Command on 9 June 1982. Through various phone conversations with Mr. Dennis Phelps (LANTNAVFACENCOM), it was determined that this was not the appropriate action for disposal of subject wastes. Therefore, the ESR was returned to this Command via the enclosure. The enclosure further established a point of contact at the Naval Supply Center as Mrs. Lacy, AV-690-4941. The reference advised the following sequence of events for successful disposal of Low-Level Radioactive Wastes:

- a. Procure required disposal permits from the State of Washington.
- b. Provide inventory of materials to be disposed of (Mrs. Lacy stated that the existing inventory list should be sufficient).
- c. Provide funds to the Naval Supply Center for contractor to package and transport material to the State of Washington disposal site. The contractor assumes all responsibility for packaging and disposal of all materials in accordance with various State and Federal regulations.

2. For further assistance in this matter, contact Mr. Vann Marshburn on Extension 1833.


E. L. ROUSE
By direction

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
5708 SOUTH CAMPUS DRIVE
CHICAGO, ILLINOIS 60637



1968

Dear Mr. [Name]:

I have received your letter of the 12th and am pleased to hear that you are interested in the work we are doing in the laboratory. The results of our recent experiments are quite promising and we are currently working on a paper which will be published in the near future. I would be glad to discuss these results with you if you have time.

I am sure you will find the information of interest.

Very truly yours,
[Name]

I am sure you will find the information of interest.

I am sure you will find the information of interest.

Yours truly,
[Name]



DEPARTMENT OF THE NAVY
ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

TELEPHONE NO.
444-9704
IN REPLY REFER TO:

09A21B:DRP:car
11010/MARCORB
CAMP LEJEUNE

28 AUG 1982

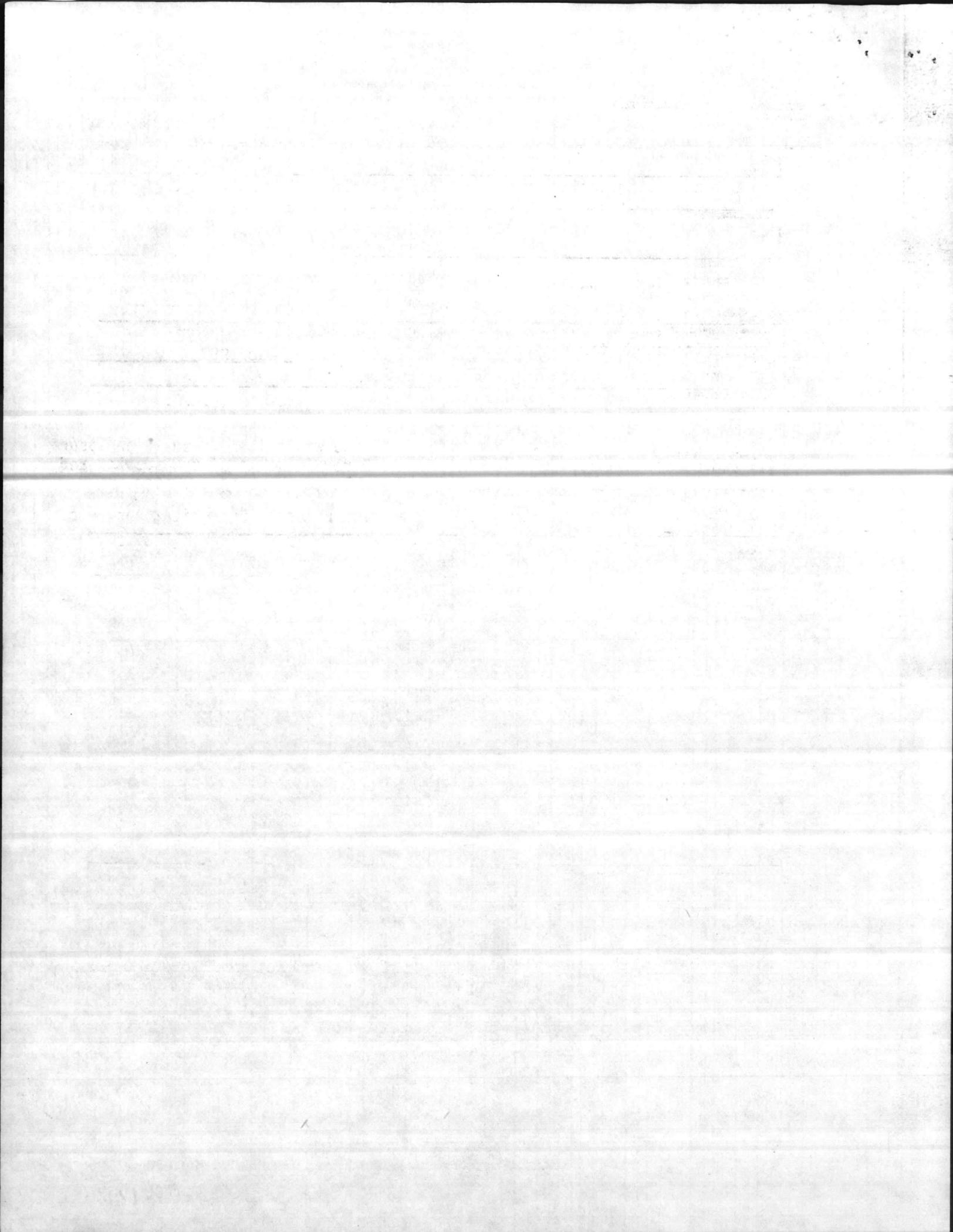
From: Commander, Atlantic Division, Naval Facilities Engineering Command
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina 28542
Subj: Engineering Study for Disposal of Low-Level Radioactive Waste
Ref: (a) FONECON MARCORB CAMP LEJEUNE (V. Marshburn)/LANTNAVFACENCOM
(D. Phelps) on 23 Aug 1982
Encl: (1) MARCORB CAMP LEJEUNE ESR 32E82

1. As agreed during reference (a), enclosure (1) is returned without action by this Command. Packaging and transporting low-level radioactive material is handled by Regional Contract Department (Code 202.9), NSC NORFOLK. Point of contact is Mrs. Lacy, telephone AUTOVON 690-4941.

D. R. Phelps

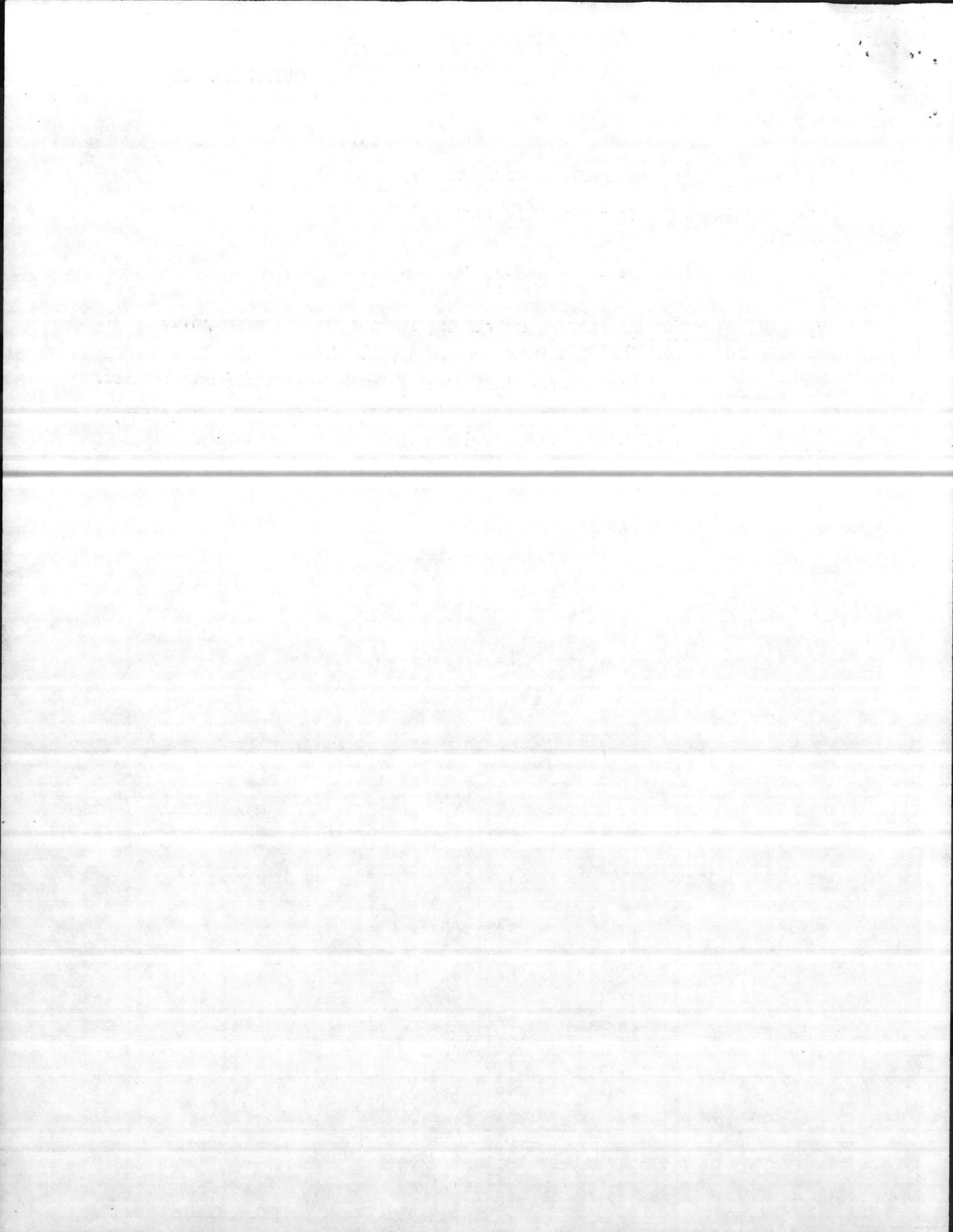
D. R. PHELPS
By direction

ENCL (1)



SECTION A FOR USE BY REQUESTER	1. FROM (Activity and location) Commanding General, Marine Corps Base, Camp Lejeune, NC 28542		2. TO Commander, Atlantic Division, Naval Facilities Engineering Command, Norfolk, VA 23511 (Attn: 09A21B3:MLB)	
	3. REFERENCE(S)		4. ESR IDENTIFICATION NUMBER (if applicable) 32E82	
	5. ENCLOSURE(S) (check) <input type="checkbox"/> NAVCOMPT 140 <input type="checkbox"/> NAVCOMPT 2038 <input type="checkbox"/> NAVCOMPT 372 <input checked="" type="checkbox"/> OTHER (specify) (1) CO, NRM C Ltr 62-khc 6260.5 dtd 12Aug81 (2) Southwest Nuclear Co. ltr dtd 31 Aug 82		6. TYPE OF FUNDING (check) <input type="checkbox"/> O&MN <input type="checkbox"/> NIF <input type="checkbox"/> NAF <input checked="" type="checkbox"/> OTHER (specify) O&MMC	
	7. TYPE OF SERVICES REQUESTED Engineering study for disposal of low-level radioactive waste.		8. REQUEST COMPLETION DATE Dec 1982	
SECTION B FOR USE BY EFD	9. DESCRIPTION OF WORK I. <u>GENERAL</u> : Engineering services are required for the following: a. Determine the physical condition of the waste identified in enclosure (1) and accomplish packaging to satisfy both requirements of transporter and local, state and federal regulations applicable at the disposal site. b. Obtain necessary permits, registration numbers, authorizations, etc.			
	10. FOR INFORMATION CONSULT (Name and phone) VANN MARSHBURN AV: 484-1833		11. OFFICIAL REPRESENTATIVE (Signature)  H. E. CARLSON By direction	12. DATE JUN 9 1982
SECTION C INTERIM ENDORSEMENT	1. SCOPE OF SERVICES		2. DATE RECEIVED	
			3. ESR NUMBER	
SECTION D FINAL ENDORSEMENT	1. REMARKS			
	2. EST. COMPLETION DATE	3. AUTHORIZED REPRESENTATIVE (Signature)		4. DATE
SECTION D FINAL ENDORSEMENT	1. ENCLOSURE(S) <input type="checkbox"/> DRAWINGS AND MAPS <input type="checkbox"/> OTHER (specify) _____ <input type="checkbox"/> SPECIFICATIONS <input type="checkbox"/> REPORT			
	2. EST. COST (if applicable) \$	3. AUTHORIZED REPRESENTATIVE (Signature)		4. DATE OF COMPLETION

COPY TO (w/o encl) AC/S, Fac; AC/S, Comp; BMaintO



required to deliver the waste to the transporter/disposer selected by the Naval Supply Center to handle the subject disposal.

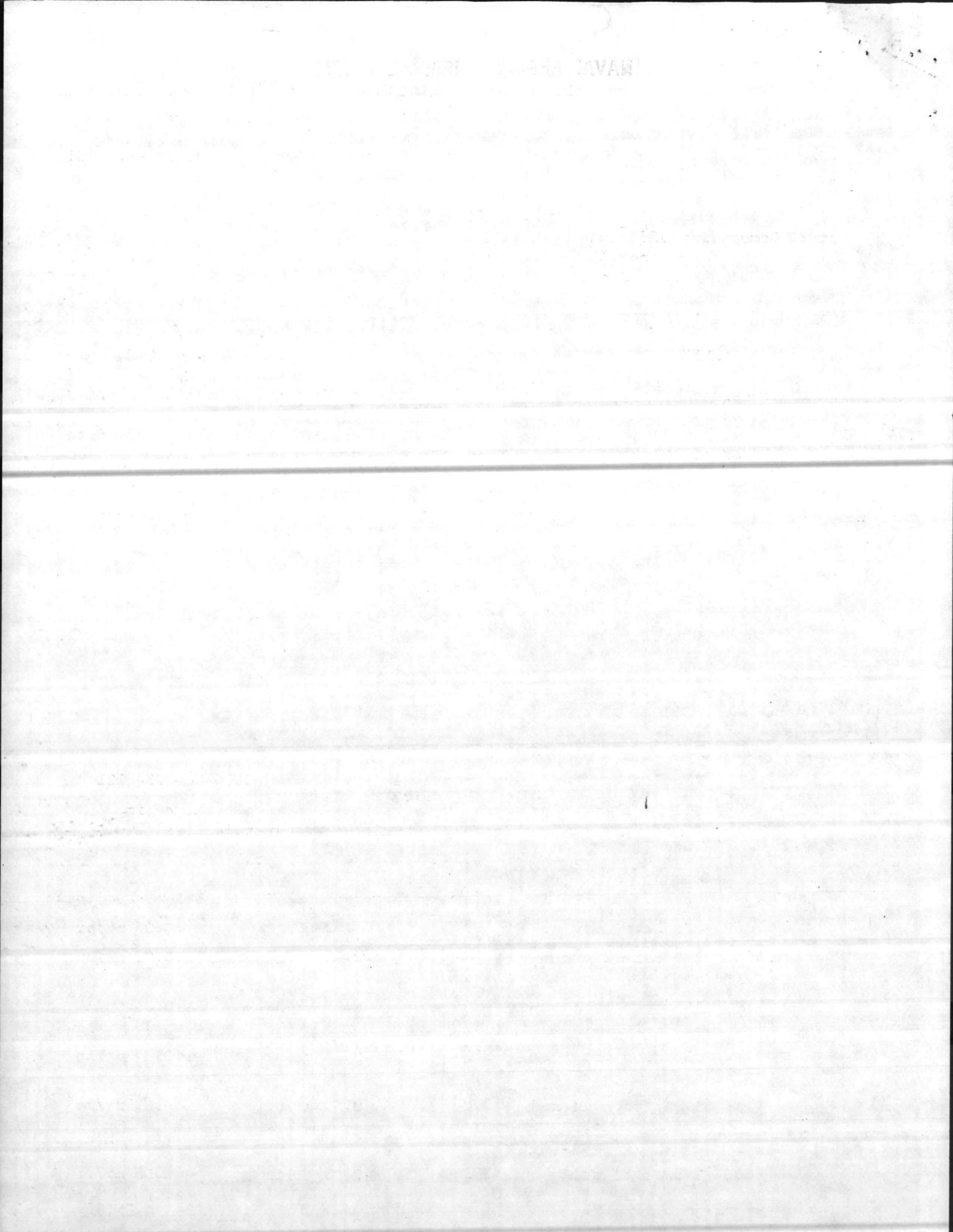
c. Enclosure (2) is provided as further information in support of the request.

II. BACKGROUND: The subject wastes are presently stored aboard the Marine Corps Base, Camp Lejeune, awaiting disposal.

III. DETAILS OF WORK: Perform engineering services providing required permits, and packaging of waste materials.

IV. FUNDS AVAILABLE: Funds for these services will be provided upon request.

V. POINT OF CONTACT: Mr. Vann Marshburn, Planning Branch, Design Division, Public Works; AV: 484-1833, FTS: 676-1833.



NAVAL REGIONAL MEDICAL CENTER
CAMP LEJEUNE, N.C. 28542

IN REPLY REFER TO
62-khc
6260.5
12 August 1981

From: Commanding Officer
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina
28542 (Attn: Director, Natural Resources, Base Maintenance)

Subj: Radioactive Waste; disposal of

Ref: (a) NAVSUPINST 5101.9B

1. As requested in the conversation between Ens B. Kalisch, Occupational and Preventive Medicine Service, and Mr. D. Sharp, Natural Resources on 6 August 1981, the following information is needed to complete reference (a). This data is current as of 10 August 1981.

5b(7)(a). NA

5b(7)(b). NA

5b(7)(c). NA

5b(7)(d). Radioactive Element - Strontium 90
Mass number - 90
Liquid

5b(7)(e). 400 microcuries per button (493 total buttons)

5b(7)(f). Number of containers - 6

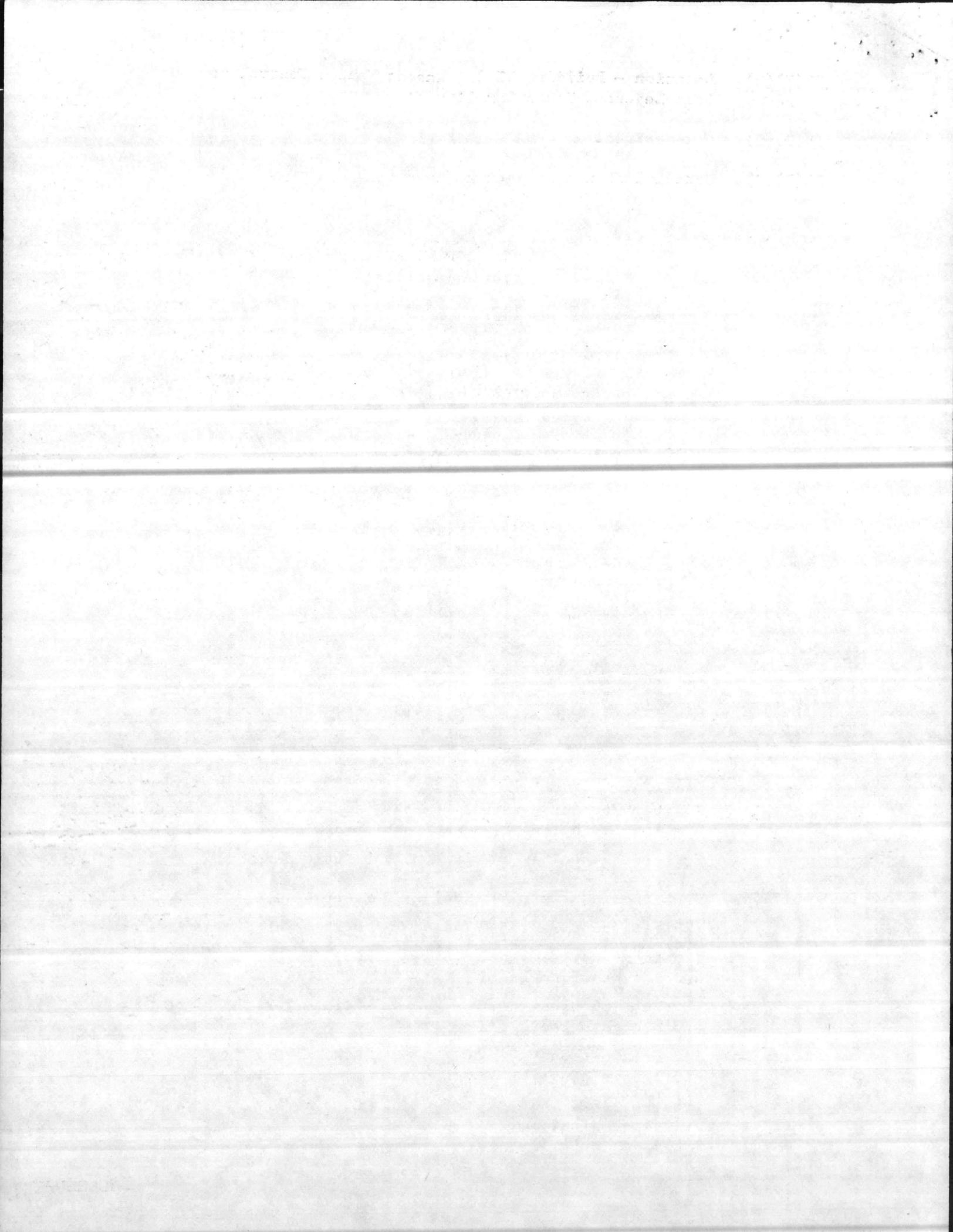
Type of container - DOT Spec. 17H-Steel drum 8110-00-823-8121

All beta buttons, animal remains, and soil are packaged in 4 mil polyethylene bags and cushioned with vermiculite.

Each container has a volume of 5.6 cubic feet.

5b(7)(g).	Container	Wt(lbs)	Contact Readings	3 Feet Readings
#1	125 beta buttons	127.5	0.25 mr/hr	<0.05 mr/hr
#2	125 beta buttons and 3 bags of soil	278	0.15 mr/hr	<0.05 mr/hr
#3	125 beta buttons and 3 bags of soil	320	0.10 mr/hr	<0.05 mr/hr
#4	118 beta buttons and 3 bags of soil	230	0.25 mr/hr	<0.05 mr/hr
#5	1 bag of soil and animal remains, and 3 bags of soil	370	<0.05 mr/hr	<0.05 mr/hr
#6	3 bags of soil	335	<0.05 mr/hr	<0.05 mr/hr

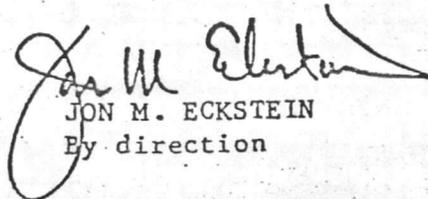
ENCLOSURE

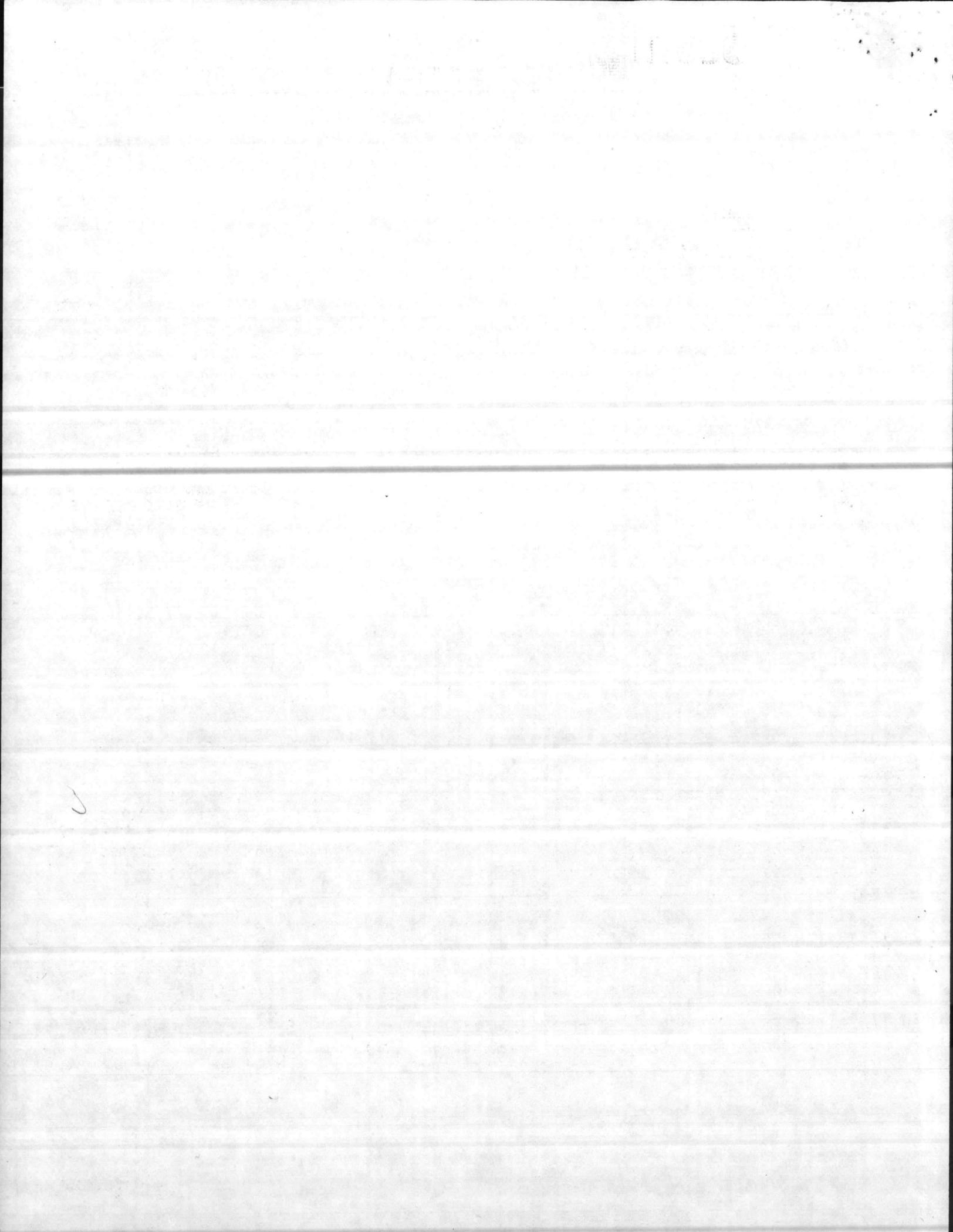


5b(7)(h). Location - Building PT 25, Insect Vector Control compound,
Camp Lejeune, North Carolina

5b(7)(i). Not desired.

5b(7)(j). Material is not subject to inventory control.


JON M. ECKSTEIN
By direction



SOUTHWEST NUCLEAR COMPANY

906 MONTGOMERY ST., • LAUREL, MD. 20810
(301) 490-7100

Commanding General
Marine Corp Base
ATTN: Assistant Chief of Staff, Facilities
Camp Lejune, North Carolina 28542

March 31, 1982

Gentlemen:

Pursuant to verbal request of Mrs. [Irene Usejsk], Naval Supply Center, Norfolk, Virginia, we are pleased to submit the following information regarding preparation for shipment of six (6) 55-gallon drums of Radioactive waste for disposal.

The State of Washington, ultimate point of disposal, requires each generator of waste to apply for a burial permit. The burial permit form is enclosed and should be submitted to the Olympia, Washington address indicated at the lower left corner. Generally, the time lapse to receipt of permit number is 10 to 15 days.

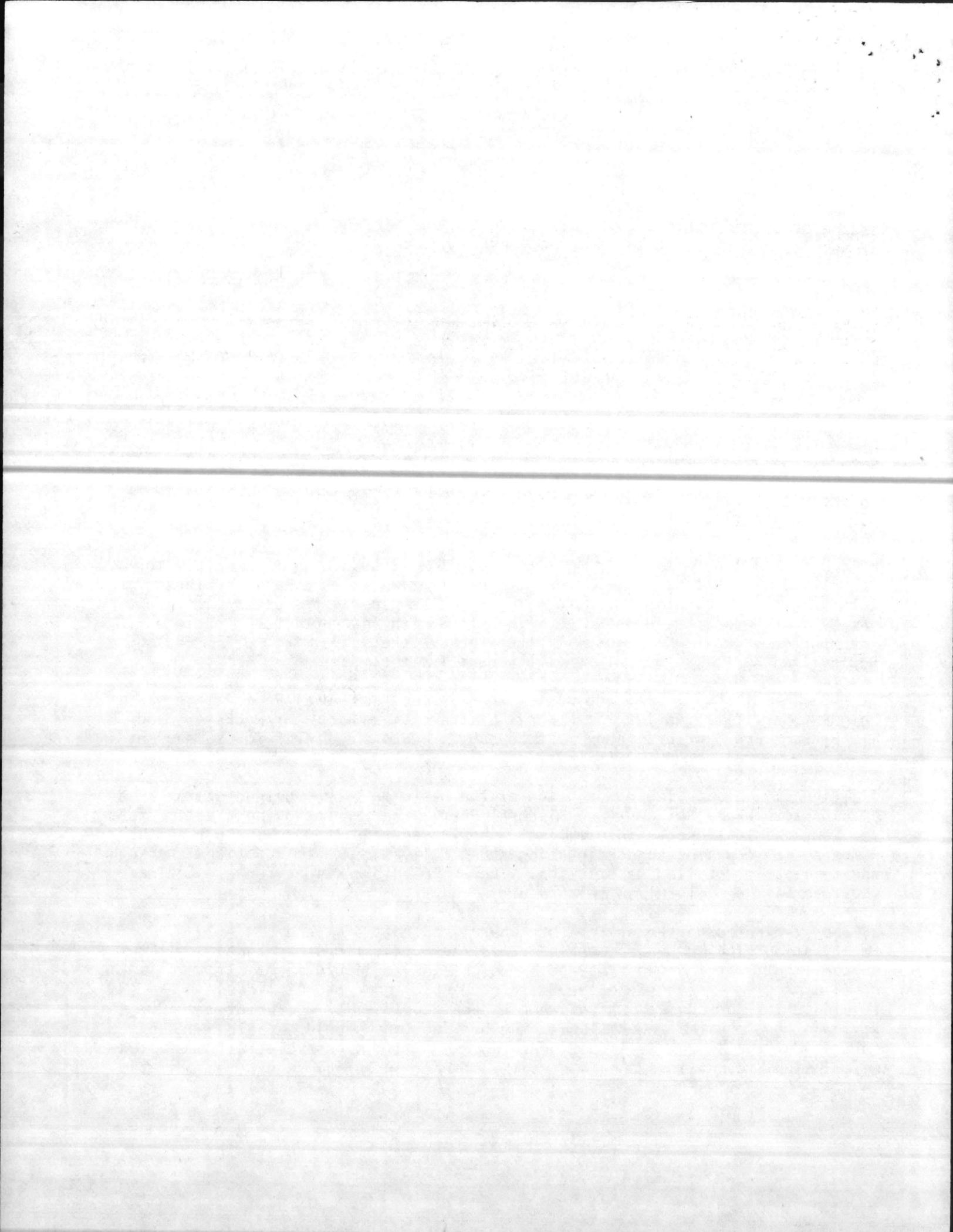
When the burial permit number is received, it will be necessary to apply for a "Low-Level Radioactive Waste Generator Registration" symbol, a 12 character letter/number combination used to categorize the generator's classification and types of waste to be disposed. This form with instructions is enclosed for your subsequent use. You will then receive the symbol from U. S. Ecology, Louisville, Kentucky, operators of the burial site.

At the time of shipment of the waste, an executed "Low-level Radioactive Waste Shipment Certification for the Federal Government as Generator/Packager, and its Brokers and Carriers" copy must be submitted to the broker for subsequent use.

Additionally, a detailed description of the waste must be provided on the "Radioactive Waste Shipment and Disposal Form". We are enclosing a set of forms for your eventual use or information. Should you require more space than the numbered set contains, a continuation sheet will accommodate additional packages and applicable detailed description. The enclosed directions for completing the form will be helpful in this regard.

NSC has indicated to the writer the general contents of the drums. In my conversation with Mr. Sharp, he indicated the beta-buttons may contain a liquid, or the light emitting media may have degenerated to liquid form. If this is the case, a problem exists since the State of Washington does not license free liquid burial, or devices which, when broken, could allow escape of liquid. A review of the physical condition of the beta-buttons should be held, and an estimate of the amount of liquid be determined. It is possible, with detailed description, to obtain a one-time waiver of certain burial requirements if the

ENCLOSURE (2)



March 31, 1982

escape of liquid would pose no threat to the environment or health and safety of people. There could be specific packaging instructions required, however.

Drum #5 is said to contain animal bones and soil. The State of Washington requires animal carcasses to be double contained, that is, the bones, in this case, have to be placed in a 30 gallon drum with lime and absorbent, sealed, then placed in a 55 gallon drum with absorbent filling the void between the two containers. Unfortunately, animal bones are still considered to be biological waste, even though there is no flesh left to deteriorate.

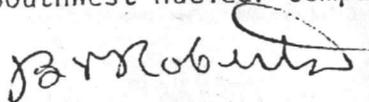
Containers authorized for burial must have a 12 gauge ring with welded lugs, 5/8" diameter bolt and lock nut. Additionally, when shipped, they must have a security seal attached among other requirements for labeling and marking.

In order to provide as much information as possible, we are enclosing a copy of our packaging requirements for each category of waste. We hope you find it useful.

This information is supplied to the Government at no charge.

Please telephone if you have any questions.

Yours very truly:
SouthWest Nuclear Company



B. V. Roberts
Vice President

encl:

